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SSC CHSL 15th October 2020 Shift-3

English Language (Basic Knowledge)

1. **Select the word which means the same as the group of words given.**
   Come in the way of

A Facilitate

B Indulge

C Hamper

D Deprive

Answer: C

2. **Select the word which means the same as the group of words given.**
   An unforseen happening which creates some damage

A Magical

B Mishap

C Menace

D Mystery

Answer: B

3. **Select the correct indirect form of the given sentence.**
   Neeta said, "Let me see how Pragya performs in her preboard examinations."

A Neeta said I would see how Pragya performed in her preboard examinations.

B Neeta wants to see Pragya's performance in her preboard examinations.

C Neeta said that she wanted to see how Pragya performed in her preboard examinations.

D Neeta wanted to see how Pragya would perform in her preboard examinations.

Answer: C

4. **Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select No improvement.**
   She <u>was looking troubled</u> when the teacher asked her to submit the homework.

A is look trouble

B No improvement

C was troubling

D had been trouble

Answer: B

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Instructions [5 - 9]

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

Comprehension:
A recent census of waterbirds conducted as a part of Asian Waterbird Census (1)_____ an increase in their population in Najafgarh Jheel this year. The census also showed a (2)_____
in the number of threatened species. Last year, the number of waterbird species were thirty one which climbed to fifty- four this year, while the threatened variety (3)_____ from four to
six in the same duration. The region also saw a healthy monsoon in 2019, which would have (4)_____ impacted the quality of habitat, making it (5)_____ to more birds.

5. **Select the most appropriate option for blank number 1.**

A recorded

B played

C reaped

D responded

Answer: A

6. **Select the most appropriate option for blank number 2.**

A health

B growth

C slowdown

D wealth

Answer: B

7. **Select the most appropriate option for blank number 3.**

A rose

B is risen

C rises

D had risen

Answer: A

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8. **Select the most appropriate option for blank number 4.**

A dutily

B deftly

C directly

D decently

Answer: C

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9. **Select the most appropriate option for blank number 5.**

A unattractive

B attractive

C possible

D impossible

Answer: B

10. **Select the correct passive form of given sentence.**
We can buy diamonds, but we cannot buy sympathy.

A Diamonds can be bought but sympathy cannot be brought.

B Diamonds can be bought but sympathy can be brought.

C Diamonds can be bought and sympathy cannot be brought.

D Diamonds cannot be bought but sympathy cannot be brought.

Answer: A

SSC CGL Previous Papers (DOWNLOAD PDF)

11. **Select the most appropriate meaning of the given idiom.**
Eat humble pie

A Eat something which is not tasty

B Admit that you are wrong

C Eat less food

D Make noise while eating

Answer: B

12. **Select the most appropriate word to fill in the blank in the given sentence.**
The flyover was closed in October last year for repairs but its reopening has been _____ as it will be ready only in March this year.

A broken

B delayed

C built

D repaired

Answer: B

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13. **Four jumbled sentences are given. Select the option that gives their correct order.**
A. Saranda forests, in Singhbum, are a huge catchment for rivers and streams in this state.
B. If these forests are opened up for mining purposes the remaining rivers and streams will dry up.
C. The state of Jharkand faces water scarcity every summer.
D. These forests are India's largest contiguous Sal forests and the current plan says mining should not be allowed in the dense forest as rivers are drying up.

A CBAD

B ACDB

C CADB

D BADC

Answer: C

SSC CGL Free Mock Test (Latest Pattern)

Instructions [14 - 15]

Select the most appropriate ANTONYM of the given word

14. **IMPROMPTU**

A Fast

B Planned

C Unplanned

D Appropriate

Answer: B

15. **FRAGILE**

A Fancy

B Slow

C Strong

D Fast

Answer: C

16. **In the given sentence identify the segment which contains the grammatical error.**
The park was well lighted at night but it was deserted, so it was a bit scared.

A The park was well lighted

B so it was a bit scared

C at night

D but it was deserted

Answer: B

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17. **Select the most appropriate synonym of the given word.**
INTERSPERSED

A Met

B Scattered

C Collected

D Wore

Answer: B

18. **Select the most appropriate synonym of the given word.**
MASQUERADED

A Mnaged

B Disappeared

C Dropped

D Acted

Answer: D

19. **Select the most appropriate meaning of the given idiom.**
To fall on deaf ears

A To be listened carefully

B To be ignored

C To be aware of what is going on

D To be paid attention

Answer: B

SSC CHSL Study Material

20. **Four jumbled sentences are given. Select the option that gives their correct order.**
A. The minimum temperature in the national capital dropped yesterday as cold north westerly winds continued to blow in from the hills.
B. North India has been witnessing a harsh winter this year.
C. However, experts said the minimum temperatures would increase over the next few days due to a cloud cover.
D. A favourable outcome of the wind factor was that there was a slight decrease in air pollution levels due to the wind speeds.

A BADC

B BCDA

C ABDC

D CDAB

Answer: A

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21. **In the given sentence identify the segment which contains the grammatical error.**
The neighbourhood were getting disturbed with the loud music that was playing at the wedding party in the big bungalow.

A that was playing

B in the big bungalow

C at the wedding party

D The neighbourhood were getting disturbed

Answer: D

22. **Select the most appropriate word to fill in the blank in the given sentence.**
Today's _____ are only interested in watching movies with the stories they can relate to the cinema.

A accountants

B personalities

C audiences

D politics

Answer: C

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23. **Select the INCORRECTLY spelt word.**

A Implicatted

B Coercion

C Suppression

D Pressurised

Answer: A

24. **Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select No improvement.**
"Did you tell your parents <u>that you would going</u> for a movie with me this evening?" My friend asked me.

A that you are going

B this that you was going

C then you were being gone

D when you will going

Answer: A

25. **Select the INCORRECTLY spelt word.**

A Irritable

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B Irational

C Escalation

D Appreciation

Answer: B

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26. **Select the correct mirror image of the given letter-cluster when a vertical mirror is placed on the right side of the cluster.**

R h f g b q

A b q g ʔ d Я

B p d g ʔ h Я

C p d g ʃ d Я

D p d g ʔ d Я

Answer: D

Explanation:
When a mirror is placed on the right side of the letter-cluster,

The facing of the figure to the left and right direction changes to opposite direction in mirror image(right facing changes to left and vice versa). There won't be change in top and bottom direction.

∴ The mirror image of the given letter-cluster is

p d g ʔ d Я

Hence, the correct answer is Option D

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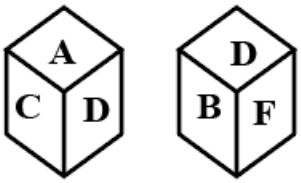
27. **Two different positions of the same dice are shown,the six faces of which are marked by the letters A, B, C, D, E and F. Which letter will be on the face opposite to the one showing 'D'?**



A F

B C

C A

D E

Answer: D

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Explanation:
From the first position of the dice, D is not opposite to A and C

From the second position of the dice, D is not opposite to B and F

⇒ D is opposite to the remaining letter E

Hence, the correct answer is Option D

28. **Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.**
Statements:
1. All bottles are jugs.
2. Some jugs are glasses.
Conclusions:
I. Some jugs are bottles.
II. Some glasses are jugs.
III. All glasses are bottles.

A Only conclusions I follows.

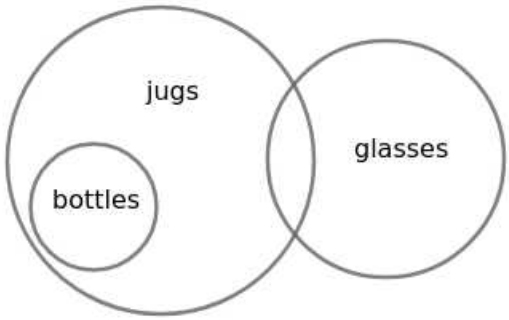
B Only conclusions II and III follow.

C Only conclusions II follows.

D Only conclusions I and II follow.

Answer: D

Explanation:
The basic diagram for the given figure is



I. Some jugs are bottles

From the basic diagram, some jugs are bottles. Hence conclusion I follows.

II. Some glasses are jugs

From the basic diagram, some glasses are jugs. Hence conclusion II follows.

III. All glasses are bottles

From the basic diagram, all glasses are not bottles. Hence conclusion III do not follow.

∴ Only conclusions I and II follow the given statements

Hence, the correct answer is Option D

29. **Four number-pairs have been given, out of which three are alike in some manner and one is different. Select the number-pair that is different from the rest.**

A 14 : 112

B 22 : 166

C 25 : 200

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D 15 : 120

Answer: B

Explanation:
14 x 8 = 112

25 x 8 = 200

15 x 8 = 120

Here the logic is second number is the product of first number and 8 but 166 is not product of 22 and 8

∴ 22 : 166 is the odd one among the given number-pairs

Hence, the correct answer is Option B

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30. **Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster.**
TZS : WCV :: KQP : ?

A NTS

B NSP

C MTS

D NTP

Answer: A

Explanation:
T + 3 = W

Z + 3 = C

S + 3 = V

Similarly,

K + 3 = N

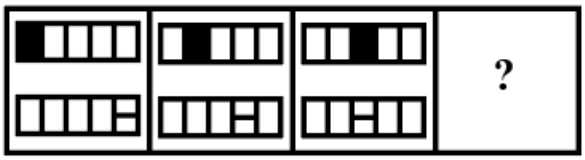
Q + 3 = T

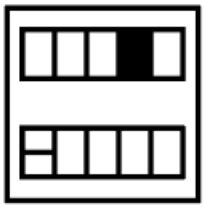
P + 3 = S

∴ NTS is related to KQP in the same way WCV is related to TZS

Hence, the correct answer is Option A

31. **Select the figure that can replace the question mark (?) in following figure series.**



A 

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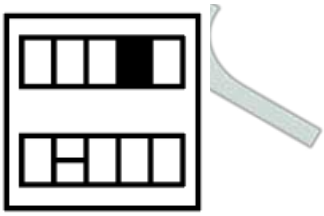
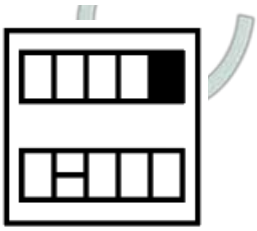
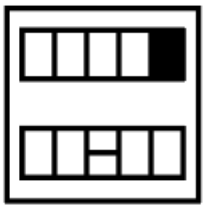
B 

C 

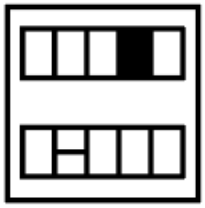
D 

Answer: B

Explanation:
The dark rectangle in the top is moving one place to the right in the given figure series

The rectangle with line at the middle in the bottom row is moving one place to the left in the given figure series

∴ The next figure in the given figure series is



Hence, the correct answer is Option B

32. **Four words have been given, out of which three are alike in some manner and one is different. Select the odd one.**

A Yuan

B Oslo

C Dollar

D Dinar

Answer: B

Explanation:
Yuan, Dollar, Dinar are currencies of different countries whereas Oslo is the capital of Norway.

∴ Oslo is the odd one among the given words

Hence, the correct answer is Option B

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33. **Select the Venn diagram that best represents the relationship between the following words.**
Graduates, Post-graduates, Sisters

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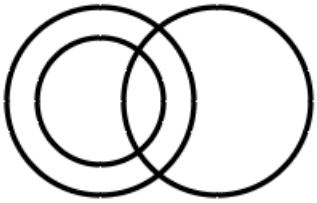
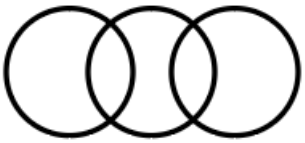
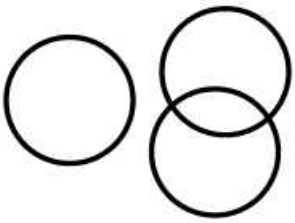
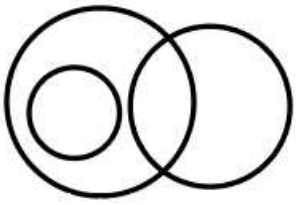
A 

B 

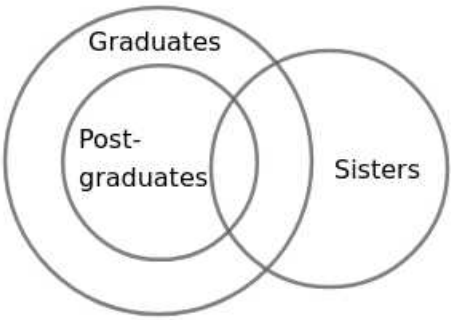
C 

D 

Answer: A

Explanation:
All Post-graduates are Graduates and Sisters can be Post-graduates and Graduates.

∴ The Venn diagram that best represents the relationship between the given words is



Hence, the correct answer is Option A

34. **Select the option in which the words share the same relationship as that shared by the given pair of words.**
Asia : China

A Asia : Antarctica

B Africa : Continent

C Thailand : Bangkok

D Asia : Malaysia

Answer: D

Explanation:
China is a country in the continent of Asia.

Similarly, Malaysia is a country in the continent of Asia

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∴ Asia and Malaysia are related in the same way Asia and China are related

Hence, the correct answer is Option D

35. **X is 5 years older than Y. The total of the current ages of X and Y is 33 years. What will be the age of Y after 7 years?**

A 21 years

B 14 years

C 22 years

D 20 years

Answer: A

Explanation:

Let the present ages of X and Y are x and y

X is 5 years older than Y

$\Rightarrow x = y + 5$ .....(1)

The total of the current ages of X and Y is 33 years

$\Rightarrow x + y = 33$

$\Rightarrow y + 5 + y = 33$

$\Rightarrow 2y = 28$

$\Rightarrow y = 14$

Present age of Y = 14 years

∴ Age of Y after 7 years = 14 + 7 = 21 years

Hence, the correct answer is Option A

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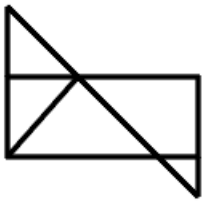
36. **How many triangles are there in the given figure?**



A 6

B 8

C 5

D 7

Answer: D

Explanation:

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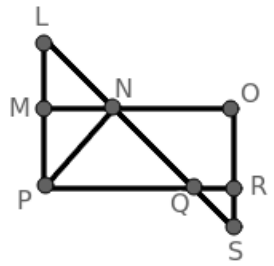

The different triangles in the given figure is NML, NMP, NLP, NOS, QNP, QLP, QRS

∴ Number of triangles in the given figure = 7

Hence, the correct answer is Option D

37. **Select the option in which the numbers are related in the same way as are the numbers in the given set.**
(4, 67, 20)

A (7, 52, 104)

B (5, 28, 56)

C (3, 30, 12)

D (6, 219, 44)

Answer: C

Explanation:
The logic here is

$4^3 + 3 = 64 + 3 = 67 \longrightarrow \text{ first number}^3 + 3 = \text{ second number}$

$4 \times (4 + 1) = 4 \times 5 = 20 \longrightarrow \text{ first number} \times (\text{first number} + 1) = \text{third number}$

Similarly,

$3^3 + 3 = 27 + 3 = 30 \longrightarrow \text{ first number}^3 + 3 = \text{ second number}$

$3 \times (3 + 1) = 3 \times 4 = 12 \longrightarrow \text{ first number} \times (\text{first number} + 1) = \text{third number}$

∴ (3, 30, 12) are related in the same way (4, 67, 20) are related.

Hence, the correct answer is Option C

38. **Select the combination of letters that when sequentially placed from left to right in the blanks of the given letter series will complete the series.**
L _ UK _ A _ KLA _ KL _ UK

A ALUUA

B LUUAL

C AUUAL

D KLAUL

Answer: A

Explanation:
By Trial and Error method,

Option A

L A U K | L A U K | L A U K | L A U K

The above letters form a series.

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Hence, the correct answer is Option A

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39. **Select the option that is related to the third number in the same way as the second number is related to the first number.**
11 : 143 :: 23 : ?

A 529

B 470

C 667

D 572

Answer: C

Explanation:
11 x 13 = 143

The second number is the product of first number and the next prime number after it.

Similarly, the next prime number after 23 is 29

23 x 29 = 667

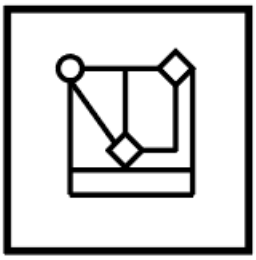
∴ 667 is related to 23 in the same way 143 is related to 11

Hence, the correct answer is Option C

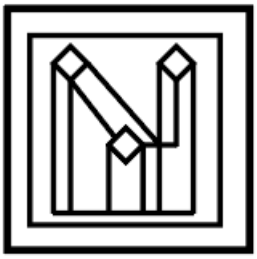
40. **Select the option figure in which the given figure X is embedded. (Rotation is not allowed)**

Figure X

A



B



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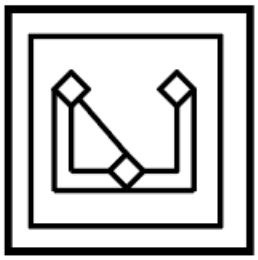
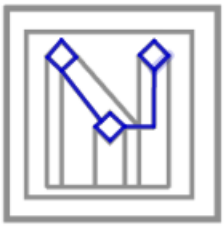
C

D



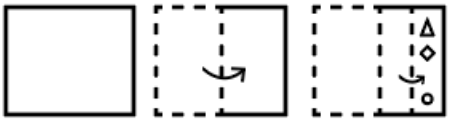
Answer: B

Explanation:
The given figure X is embedded in the figure 2 as shown below

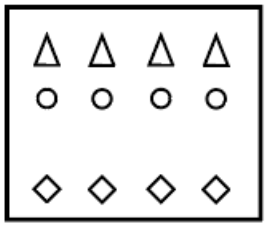


Hence, the correct answer is Option B

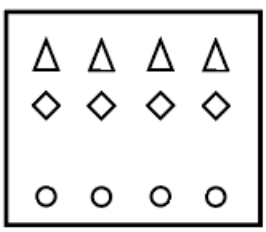
41. **The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. Select from the option figures, how would this paper look when unfolded?**



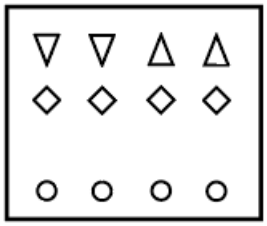
A



B



C



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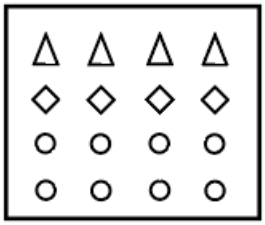
D 

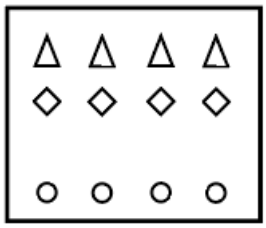
Answer: B

Explanation:
When the paper is unfolded, the pattern of cutting will be similar in the four vertical parts of the paper.

When the paper is unfolded first, the triangle, rhombus and circle will appear similarly on the next left part.

When the paper is unfolded again, the triangle, rhombus and circle will appear similarly on the next two left parts.

∴ When the paper is unfolded it appears as shown below



Hence, the correct answer is Option B

42. **Which two numbers should be interchanged to make the given equation correct?**
$7 + 24 \times 3 - 72 \div 18 = 58$

A 3 and 7

B 18 and 24

C 7 and 18

D 72 and 24

Answer: B

Explanation:
By Trial and Error method,

Option A

$3 + 24 \times 7 - 72 \div 18 = 58$

$3 + 24 \times 7 - 4 = 58$

$3 + 168 - 4 = 58$

$167 = 58$

Hence Option A is incorrect

Option B

$7 + 18 \times 3 - 72 \div 24 = 58$

$7 + 18 \times 3 - 3 = 58$

$7 + 54 - 3 = 58$

$58 = 58$

Hence, the correct answer is Option B

43. **'Curtain' is related to 'Cloth' in the same way as 'Ornaments' is related to '.....'**

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A Gold

B Beauty

C Expensive

D Goldsmith

Answer: A

Explanation:
Curtain is made from Cloth, similarly Ornaments are made from Gold.

∴ Ornaments are related to Gold in the same way Curtain is related Cloth

Hence, the correct answer is Option A

44. **Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the odd letter-cluster.**

A EYC

B CUZ

C DPT

D BDH

Answer: B

Explanation:
The logic here is

EYC $\longrightarrow$ E = 5, Y = 25, C = 3

CUZ $\longrightarrow$ C = 3, U = 21, Z = 26

DPT $\longrightarrow$ D = 4, P = 16, T = 20

BDH $\longrightarrow$ B = 2, D = 4, H = 8

In the letter-clusters EYC, DPT, BDH, the values of all letters are either odd or even.

In CUZ, two letters are odd and one letter is even.

∴ CUZ is the odd one among the given letter-clusters.

Hence, the correct answer is Option B

SSC CHSL Free Mock Test

45. **Ina certain code language, 'PROCTOR' is written as 'RUSBURW'. How will 'HOSTING' be written as in that language?**

A VRKTJRL

B VRKSJQL

C VQKSLSL

D WXKSJQN

Answer: B

Explanation:
Given, 'PROCTOR' is written as 'RUSBURW'

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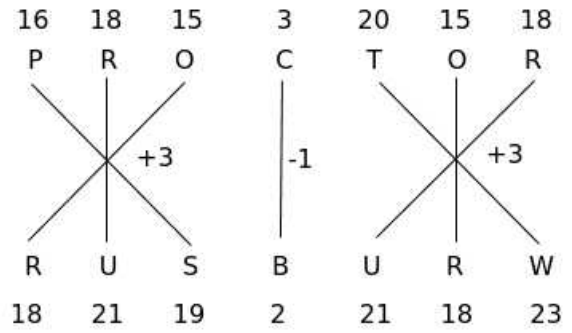
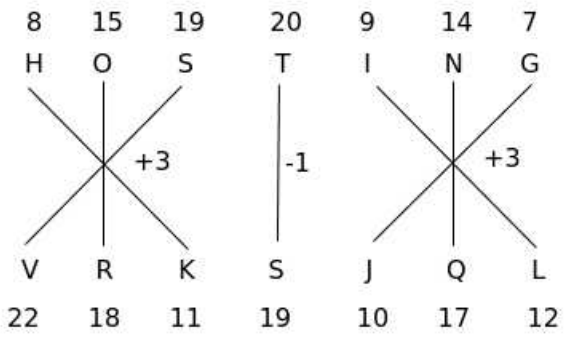
The logic here is



Similarly,



∴ HOSTING is written as VRKSJQL in the code language

Hence, the correct answer is Option B

46. **Select the correct option that arranges the following words in a logical and meaningful order.**
    1. Infant
    2. Old age
    3. Adolescent
    4. Adult
    5. Childhood

A 5, 1, 3, 4, 2

B 1, 5, 3, 4, 2

C 1, 5, 3, 2, 4

D 5, 1, 4, 3, 2

Answer: B

Explanation:
Infant is the synonym of Baby.

Adolescent is the transitional phase of growth which is the age between Childhood and Adult age.

∴ The meaningful order of words from younger to older age is Infant, Childhood, Adolescent, Adult, Old age

Hence, the correct answer is Option B

47. **In certain code language, 'VARIOUS' is coded as '519812254418'. How will 'PENSION' be coded as in that language?**

A 16551388120513

B 16251488122812

C 11251388122513

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D 11241398122514

Answer: C

Explanation:
Given, VARIOUS is coded as 519812254418 in the code language

The logic here is

V opposite is E $\longrightarrow$ E = 5 $\longrightarrow$ V code is 5

A = 1 $\longrightarrow$ A code is 1^2 = 1

R opposite is I $\longrightarrow$ I = 9 $\longrightarrow$ R code is 9

I = 9 $\longrightarrow$ I code is 9^2 = 81

O = 15 $\longrightarrow$ O code is 15^2 = 225

U = 21 $\longrightarrow$ U code is 21^2 = 441

S opposite is H $\longrightarrow$ H = 8 $\longrightarrow$ S code is 8

For consonants, opposite letter place value is coded and for vowels, square of the place value of the vowel is coded.

Similarly,

P opposite is K $\longrightarrow$ K = 11 $\longrightarrow$ P code is 11

E = 5 $\longrightarrow$ E code is 5^2 = 25

N opposite is M $\longrightarrow$ M = 13 $\longrightarrow$ N code is 13

S opposite is H $\longrightarrow$ H = 8 $\longrightarrow$ S code is 8

I = 9 $\longrightarrow$ I code is 9^2 = 81

O = 15 $\longrightarrow$ O code is 15^2 = 225

N opposite is M $\longrightarrow$ M = 13 $\longrightarrow$ N code is 13

$\therefore$ PENSION is coded as 11251388122513 in the code language.

Hence, the correct answer is Option C

SSC CHSL Prevoius Papers (DOWNLOAD PDF)

48. **Pointing to the photograph of a boy, Vikas said, "His father's mother, Sunitha, is my wife's sister's mother". How is Sunitha related to Vikas?**

A Mother-in-law

B Maternal aunt

C Maternal grandmother

D Mother

Answer: A

Explanation:
Given, Sunitha is Vikas wife's sister's mother

$\Rightarrow$ Sunitha is mother of Vikas's wife

$\therefore$ Sunitha is Mother-in-law of Vikas

Hence, the correct answer is Option A

49. **Select the number that can replace the question mark (?) in the following series.**
114, 121, 138, 175, 242, ?

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A 349

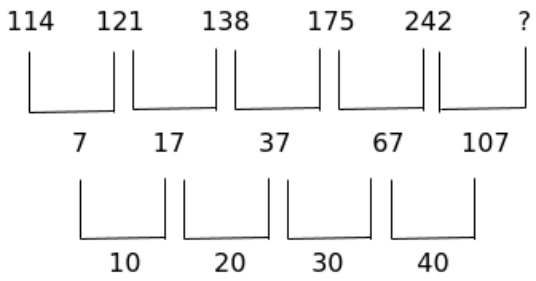
B 345

C 356

D 347

Answer: A

Explanation:
Given series is 114, 121, 138, 175, 242, ?



The logic here is difference of differences of the numbers are multiples of 10.

The next multiple will be 40 and the difference between required number and 242 is 107.

Let the required number = a

$\Rightarrow$ a - 242 = 107

$\Rightarrow$ a = 349

$\therefore$ Required number = 349

Hence, the correct answer is Option A

50. **Select the option in which the numbersare related in the same way as are the numbersin the givenset. (16, 88, 296)**

A (14, 77, 385)

B (12, 66, 222)

C (28, 140, 518)

D (20, 110, 250)

Answer: B

SSC CGL Previous Papers (DOWNLOAD PDF)

Quantitative Aptitude(Basic Arithmetic Skill)

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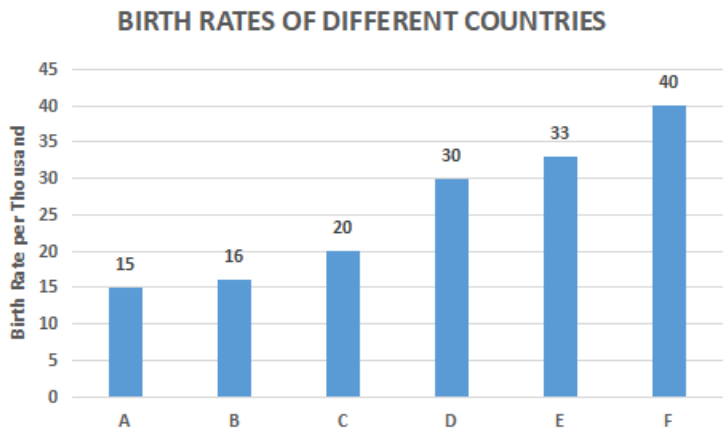
51. **Observe the following bar-graph carefully and answer the following questions:**



The birth rate of Country C is approximately what percentage of the birth rate of Country E?

A 70 %

B 65 %

C 60 %

D 75 %

Answer: C

Explanation:
From the bar-graph,

Birth rate of Country C = 20

Birth rate of Country E = 33

$\therefore$ Required Percentage = $\frac{20}{33} \times 100 = \frac{2000}{33} = 60.60\%$

Hence, the correct answer is Option C

SSC CGL Free Mock Test (Latest Pattern)

52. **The fourth proportional to 10, 12, 15 is:**

A 20

B 18

C 24

D 22

Answer: B

Explanation:
Let the fourth proportional to 10, 12, 15 = d

=> $\frac{10}{12} = \frac{15}{d}$

=> $10d = 180$

=> $d = 18$

Hence, the correct answer is Option B

53. **A blanket is sold for ₹680 at the discounts of 15% and 20%.Find the printed price of the blanket.**

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A ₹800

B ₹900

C ₹950

D ₹1000

Answer: D

Explanation:
Let the Printed Price or Marked Price = $M.P$

Price after 15% discount = $\frac{85}{100}M.P$

Selling Price after 20% discount = $\frac{80}{100} \times \frac{85}{100}M.P$

Given, Selling Price of blanket = ₹680

=> $\frac{80}{100} \times \frac{85}{100}M.P = 680$

=> $M.P = \frac{680 \times 100 \times 100}{80 \times 85}$

=> $M.P = 1000$

∴ Printed Price of the blanket = ₹1000

Hence, the correct answer is Option D

54. **In how many years will a sum of ₹$5,000$ yield a simple interest of ₹$2,000$ at an interest rate of 10% p.a.?**

A 5 years

B 3 years

C 6 years

D 4 years

Answer: D

Explanation:
Given,

Principal Amount (P) = ₹$5,000$

Rate of interest (R) = 10% p.a

Let Time required = T

Simple Interest (I) = ₹$2,000$

=> $\frac{PTR}{100} = 2000$

=> $\frac{5000 \times T \times 10}{100} = 2000$

=> $T = 4$ years

Hence, the correct answer is Option D

SSC CHSL Important Questions and Answers (Download PDF)

55. **The ratio of the areas of two squares is 16 : 1. Find the ratio between their perimeters.**

A 4 : 1

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B 12 : 1

C 3 : 1

D 8 : 1

Answer: A

Explanation:
Let the length of side of two squares be a, b respectively

Given, ratio of areas of two squares = 16:1

=> $\frac{a^2}{b^2} = \frac{16}{1}$

=> $\left(\frac{a}{b}\right)^2 = \frac{16}{1}$

=> $\frac{a}{b} = \frac{4}{1}$

=> $\frac{4a}{4b} = \frac{4}{1}$

∴ Ratio of their perimeters = 4:1

Hence, the correct answer is Option A

56. **A man sold his furniture at a 25% gain. Had he sold it at 15% loss. he would have received ₹800 less. Find cost price of the furniture.**

A ₹$1,500$

B ₹$3,000$

C ₹$2,500$

D ₹$2,000$

Answer: D

Explanation:
Let the Cost Price of the furniture = C.P

Selling Price of the furniture at 25% gain = $\frac{125}{100}C.P$

Selling Price of the furniture at 15% loss = $\frac{85}{100}C.P$

According to the Problem,

$\frac{125}{100}C.P - \frac{85}{100}C.P = 800$

=> $\frac{40}{100}C.P = 800$

=> $C.P = 2000$

∴ Cost Price of the furniture = ₹$2,000$

57. **Find the value of** $\frac{\cos^2 30^\circ - \sin^2 30^\circ}{\sin^2 15^\circ + \cos^2 15^\circ}$

A 1

B 0

C $1 - \sqrt{3}$

D $\frac{1}{2}$

Answer: D

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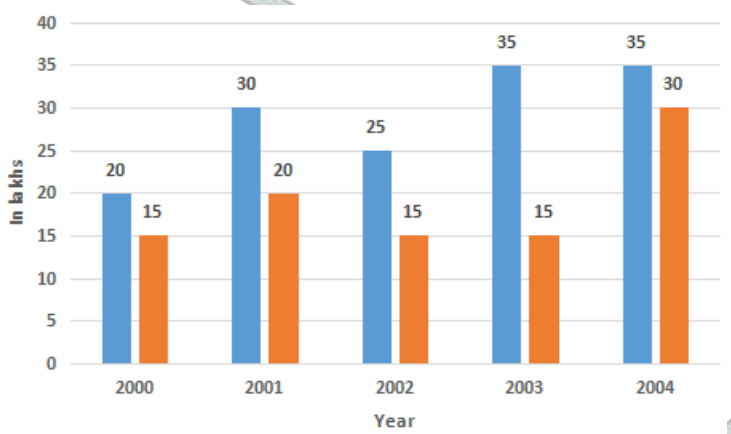
Explanation:

$$\frac{\cos^2 30^\circ - \sin^2 30^\circ}{\sin^2 15^\circ + \cos^2 15^\circ} = \frac{\left(\frac{\sqrt{3}}{2}\right)^2 + \left(\frac{1}{2}\right)^2}{1} = \frac{3}{4} - \frac{1}{4} = \frac{2}{4} = \frac{1}{2}$$

Hence, the correct answer is Option D

SSC CHSL Study Material

58. **In the given bar graph, the blue bar shows the income and the orange bar shows the expenditure of a company. Study the graph and answer the question that follows.**



The income in 2001 was equal to the expenditure in the year:

A 2004

B 2000

C 2003

D 2002

Answer: A

Explanation:

From the bar graph,

Income in 2001 = 30 lakhs

Expenditure in 2000 = 15

Expenditure in 2001 = 20

Expenditure in 2002 = 15

Expenditure in 2003 = 15

Expenditure in 2004 = 30

∴ Income in 2001 = Expenditure in 2004

Hence, the correct answer is Option A

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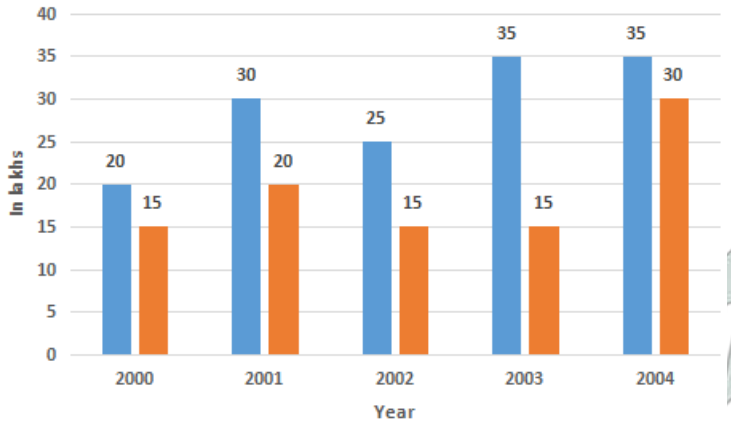
59. **In the given bar graph, the white bar shows the income and the black bar shows the expenditure of company(in ₹ lakhs). Study the graph and answer the question that follows.**



The percentage decrease in the income of the company in 2002 as compared to that in 2001 is:

A $16\frac{2}{3}$

B $24\frac{1}{3}$

C 22%

D 18%

Answer: A

Explanation:
From the bar graph,

Income of the company in 2002 = 25 lakhs

Income of the company in 2001 = 30 lakhs

Decrease in income of 2001 compared to 2002 = 30 - 25 = 5 lakhs

$\therefore$ Required percentage = $\frac{5}{30} \times 100 = 16\frac{2}{3}\%$

Hence, the correct answer is Option A

60. **If $\sec\theta - \tan\theta = 3$, then $\cos\theta$ is equal to:**

A $\frac{4}{9}$

B $\frac{2}{5}$

C $\frac{3}{5}$

D $\frac{3}{7}$

Answer: C

Explanation:
$\sec\theta - \tan\theta = 3$ .....(1)

=> $(\sec\theta - \tan\theta) \times \frac{(\sec\theta+\tan\theta)}{(\sec\theta+\tan\theta)} = 3$

=> $\frac{\sec^2\theta - \tan^2\theta}{(\sec\theta+\tan\theta)} = 3$

=> $\frac{1}{(\sec\theta+\tan\theta)} = 3$

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=> $\sec\theta + \tan\theta = \frac{1}{3}$ .....(2)

Adding (1) and (2)

=> $2\sec\theta = 3 + \frac{1}{3}$

=> $2\sec\theta = \frac{10}{3}$

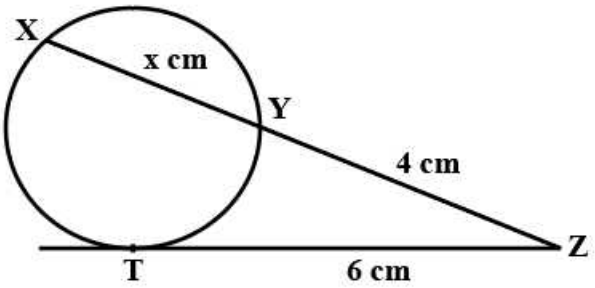
=> $\sec\theta = \frac{5}{3}$

=> $\cos\theta = \frac{3}{5}$

Hence, the correct answer is Option C

SSC CHSL Free App

61. **In the given figure**



XYZ is a secant and ZT is a tangent. What is the value of x.

A 5

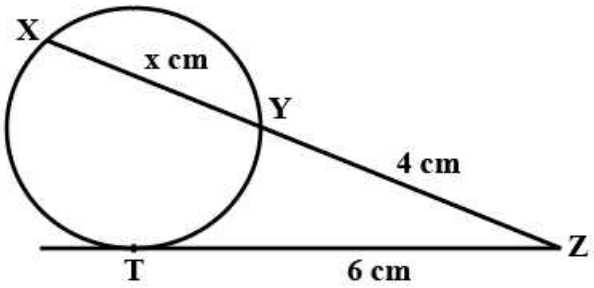
B 7

C 8

D 9

Answer: A

Explanation:



Given, XYZ is the secant and ZT is the tangent

we know that, $ZT^2 = ZX.ZY$

=> $6^2 = (4+x)4$

=> 36 = 16 + 4x

=> 4x = 20

=> x = 5 cm

Hence, the correct answer is Option A

62. **If a = 355, b = 356, c = 357,then find the value of** $a^3 + b^3 + c^3 - 3abc$.

A 3204

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B 3206

C 3202

D 3208

Answer: A

Explanation:
Given, a = 355, b = 356, c = 357

$a^3+b^3+c^3—3abc=(a+b+c)\left(a^2+b^2+c^2-ab-bc-ca\right)$

$=\frac{1}{2}(a+b+c)\left(2a^2+2b^2+2c^2-2ab-2bc-2ca\right)$

$=\frac{(a+b+c)}{2}\left[(a-b)^2+(b-c)^2+(c-a)^2\right]$

$=\frac{(355+356+357)}{2}\left[(355-356)^2+(356-357)^2+(357-355)^2\right]$

$=\frac{1068}{2}[1+1+4]$

$=\frac{1068}{2}[6]$

$=3204$

Hence, the correct answer is Option A

63. **Find the value of** $225-[42-\{25-(18-18+13)\}]$.

A 244

B 223

C 222

D 221

Answer: D

Explanation:
$225-[42-\{25-(18-18+13)\}]=225-[42-\{25-(18-31)\}]$

$=225-[42-\{25-(-13)\}]$

$=225-[42-\{25+13\}]$

$=225-[42-38]$

$=225-4$

$=221$

Hence, the correct answer is Option D

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64. **How many men will be required to plough 50 acres of land in 10 days if 15 men required 6 days to plough 10 acres of land?**

A 50

B 40

C 55

D 45

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Answer: D

Explanation:
15 men can plough 10 acres of land in 6 days

=> M_1 = 15, D_1 = 6, W_1 = 10

Let the number of men required to plough 50 acres of land in 10 days = M_2

Given, D_2 = 10, W_2 = 50

We know that $\frac{M_1 D_1}{W_1} = \frac{M_2 D_2}{W_2}$

=> $\frac{15 \times 6}{10} = \frac{M_2 \times 10}{50}$

=> $M_2 = 45$

∴ The number of men required to plough 50 acres of land in 10 days = 45

Hence, the correct answer is Option D

65. **Rakesh walking at the speed of 8 km/h crosses a bridge in 30 minutes. What is the length of the bridge in kilometres?**

A 5 km

B 2 km

C 3 km

D 4 km

Answer: D

Explanation:
Given, Speed = 8 km/hr

Time = 30 min = $\frac{30}{60}$ hr = $\frac{1}{2}$ hr

∴ Length of the bridge = Speed x Time = $8 \times \frac{1}{2}$ = 4 km

66. **Rita's income is 15% less than Richa's income. By what percent is Richa's income more than Rita's income?**

A $14\frac{11}{17}$

B $15\frac{11}{17}$

C $16\frac{11}{17}$

D $17\frac{11}{17}$

Answer: D

Explanation:
Let the income of Rita = T

Let the income of Richa = C

Given, Rita's income is 15% less than Richa's income

=> $T = \frac{85}{100}C$

∴ Required Percentage = $\frac{C-T}{T} \times 100$

$= \frac{C - \frac{85}{100}C}{\frac{85}{100}C} \times 100$

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$= \frac{100}{85} C$

$= \frac{100}{85} C \times 100$

$= \frac{15}{85} \times 100$

$= \frac{300}{17}$

$= 17\frac{11}{17}$

Hence, the correct answer is Option D

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67. **The area of the largest triangle that can be inscribed in a semi-circle of radius 4 cm in square centimetres is**

A $12cm^2$

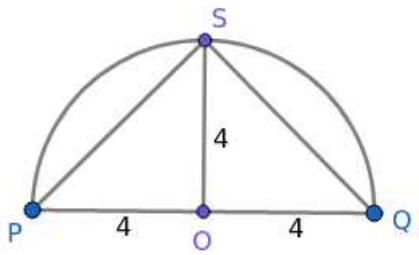
B $14cm^2$

C $18cm^2$

D $16cm^2$

Answer: D

Explanation:



The largest triangle inscribed in a semi circle is as shown in the figure

Given, radius of the semi circle = 4

Area of the traingle = $\frac{1}{2}$ x PQ x OS = $\frac{1}{2} \times 8 \times 4$ = 16 cm^2

Hence, the correct answer is Option D

68. **If 2a + 3b = 8 and ab = 5, thenfind the value of** $4a^2 + 9b^2$.

A 8

B 2

C 4

D 6

Answer: C

Explanation:

Given, $2a + 3b = 8$ and $ab = 5$

=> $(2a + 3b)^2 = 8^2$

=> $4a^2 + 9b^2 + 2.2a.3b = 64$

=> $4a^2 + 9b^2 + 12ab = 64$

=> $4a^2 + 9b^2 + 12(5) = 64$

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=> $4a^2 + 9b^2 = 64 - 60$

=> $4a^2 + 9b^2 = 4$

69. **In △XYZ, if G is the centroid and XL is the median with length 18 cm, then the length of XG is:**

A 12 cm

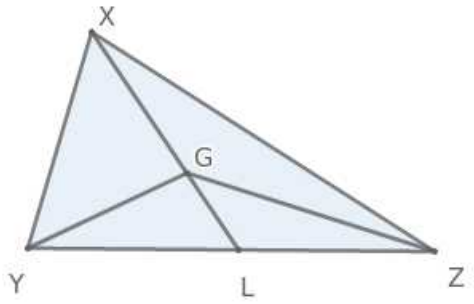
B 14 cm

C 10 cm

D 16 cm

Answer: A

Explanation:



Given,

In △XYZ, if G is the centroid and XL is the median

Length of the median XL = 18 cm

we know that centroid G divides the median XL in the ratio 2 : 1

=> XG : GL = 2 : 1

∴ Length of XG = $\frac{2}{2+1} \times \mathrm{XL} = \frac{2}{3} \times 18$ = 12 cm

Hence, the correct answer is Option A

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70. **Given that the mean of five numbers is 28. If one of them is excluded, the mean gets reduced by 5. Determine the excluded number.**

A 47

B 45

C 48

D 46

Answer: C

Explanation:
Given, Mean of five numbers = 28

=> Sum of five numbers = 28 x 5 = 140

According to the problem,

Mean of four numbers = 28-5 = 23

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=> Sum of four numbers = 23 x 4 = 92

∴ Excluded number = Sum of five numbers - Sum of four numbers = 140-92 = 48

Hence, the correct answer is Option C

71. **If x + y = 15 and xy = 14, then the value of x — y is:**

A 13

B 12

C 11

D 14

Answer: A

Explanation:

Given, $x + y = 15$ and $xy = 14$

=> $(x+y)^2 = 15^2$

=> $x^2 + y^2 + 2xy = 225$

=> $x^2 + y^2 + 2xy - 2xy + 2xy = 225$

=> $x^2 + y^2 - 2xy + 4xy = 225$

=> $(x-y)^2 + 4(14) = 225$

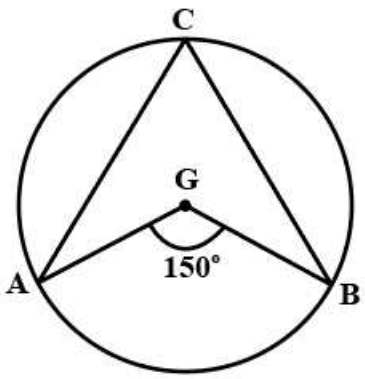
=> $(x-y)^2 + = 225 - 56$

=> $(x-y)^2 + = 169$

=> $x - y = 13$

Hence, the correct answer is Option A

72. **In the figure**



'G' is the centre of the circle. Find the $\angle ACB$ **when** $\angle AGB = 150^\circ$

A 50°

B 65°

C 75°

D 60°

Answer: C

Explanation:

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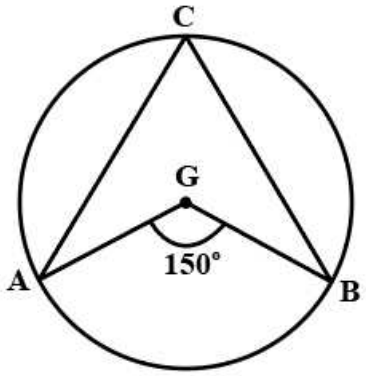

Given, $\angle AGB = 150^\circ$

'G' is the centre of the circle

The angle subtended by an arc of a circle at its centre is twice of the angle it subtends at any point on the circumference

=> Angle subtended by arc AB at centre G is twice the angle subtended at point C

=> $\angle AGB$ = 2 $\angle ACB$

=> 150° = 2 $\angle ACB$

=> $\angle ACB$ = $\frac{150^\circ}{2}$

=> $\angle ACB$ = 75°

Hence, the correct answer is Option C

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73. **Which of the following numbers is divisible by 3?**

A 8765001

B 8703593

C 8703541

D 8703572

Answer: A

Explanation:

If a number is divisible by 3, then sum of the digits of the number should be multiple of 3

Sum of the digits of the number 8765001 = 8+7+6+5+0+0+1 = 27

Sum of the digits of the number 8703593 = 8+7+0+3+5+9+3 = 35

Sum of the digits of the number 8703541 = 8+7+0+3+5+4+1 = 28

Sum of the digits of the number 8703572 = 8+7+0+3+5+7+2 = 32

Clearly 27 is the multiple of 3, so 8765001 is divisible by 3

Hence, the correct answer is Option A

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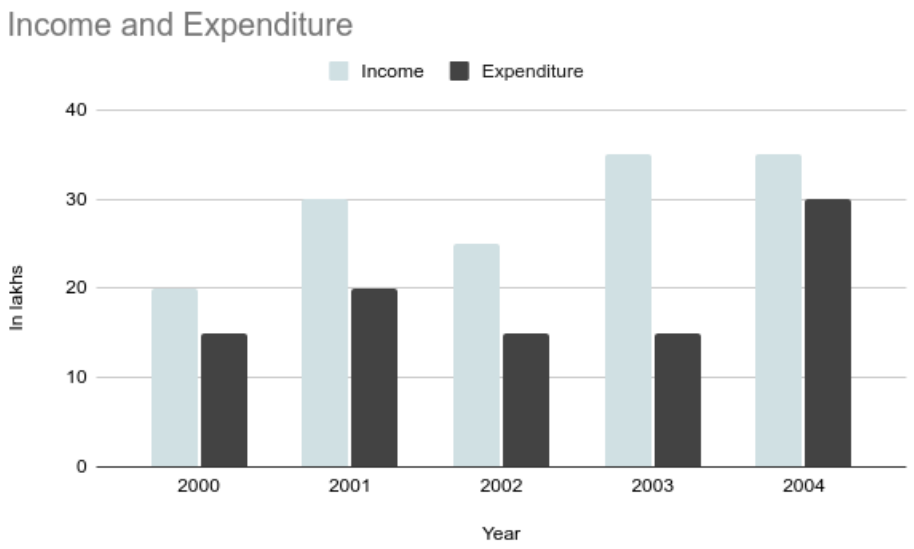
74. **In the given bar graph, the white bar shows the income and the black bar shows the expenditure of a company. Study the graph and answer the question that follows.**



The expenditure from 2001 to 2002 decreased by:

A $35\frac{1}{3}$

B 25

C $34\frac{1}{3}$

D $36\frac{1}{3}$

Answer: B

Explanation:
From the bar graph,

Percentage decrease in expenditure from 2001 to 2002 = $\frac{20-15}{20} \times 100 = \frac{5}{20} \times 100 = 25\%$

Hence, the correct answer is Option B

75. **If** $\tan^2 x — 3\sec^2 x + 3 = 0$, **then the value of** $x(0 \leq x \leq 90^\circ)$ **is:**

A 30°

B 0°

C 60°

D 45°

Answer: B

Explanation:
$\tan^2 x — 3\sec^2 x + 3 = 0,$

$=> \tan^2 x - 3\left(1 + \tan^2 x\right) + 3 = 0$

$=> \tan^2 x - 3 - 3\tan^2 x + 3 = 0$

$=> -2\tan^2 x = 0$

$=> \tan^2 x = 0$

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=> $\tan x = 0$

=> $x = 0^\circ$ since $(0 \leq x \leq 90^\circ)$

Hence, the correct answer is Option B

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General Awareness

76. **Which of the following is the largest delta in the world?**

A Amazon Delta

B Indus River Delta

C Ganges-Brahmaputra Delta

D Danube Delta

Answer: C

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77. **As per Article 80 of the Constitution of India, what can be the maximum strength of Rajya Sabha?**

A 235

B 250

C 240

D 245

Answer: B

78. **Who among the following lifted the 'WTA Hobart International' tennis trophy with partner Nadiia Kichenok in January 2020?**

A Ankita Raina

B Rushmi Chakravarthi

C Sania Mirza

D Karman Kaur Thandi

Answer: C

79. **Which statement best explains why Shillong gets around 200 cm rainfall annually; whereas Cherrapunji, which is around 30 km away (as the crow flies), gets over 1250 cm of rainfall annually?**

A Cherrapunji lies on the windward side of the Khasi hills and receives rainfall from the Bay of Bengal branch of monsoon, while Shillong lies on the leeward side of the Khasi hills, which forms the rain shadow area.

B Cherrapunii gets rainfall from rain-laden clouds coming from the Himalayas, whereas Shillong gets rainfall from the Malabar branch of monsoon.

C The average temperature of Shillong has gone up due to excessive deforestation and pollution.

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D Cherrapunji lies on the leeward side of the Khasi hills and Shillong lies on the windward side of the Khasi hills, and thus, gets only wind and no rain.

Answer: A

80. **As of January 2020, who was the chairperson of the National Human Rights Commission of India ?**

A Justice Prafulla Chandra Pant

B Justice Cyriac Joseph

C Justice HL Dattu

D Justice Pinaki Chandra Ghose

Answer: C

81. **With which of the following musical instruments was the musician Palghat Mani Iyer associated?**

A Mridangam

B Flute

C Shehnai

D Sitar

Answer: A

82. **What is 'Central Equipment Identify Register'?**

A A portal launched by the Government of India to identify and trace the illegal activities of criminals

B A portal launched by the Government of India to enforce income and corporate tax compliance

C A portal launched by the Government of India to block and trace mobile phones

D A portal launched by the Government of India to identify and trace the activities of illegal immigrants

Answer: C

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83. **_____ is the fastest to read from and write to than the other kinds of storage in a computer.**

A CD-ROM

B Floppy disk

C Hard disk

D RAM

Answer: D

84. **Which of the following parks is India's first 'Mixed World Heritage Site' on UNESCO's World Heritage list?**

A Gir National Park

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B Khangchendzonga National Park

C Kanha National Park

D Nagarhole National Park

Answer: B

85. **_____ is a small, portable flash memory card that plugs into a computer's USB port and functions as a portable hard drive.**

A DVD-ROM

B Flash drive

C CD-ROM

D CD-RW

Answer: B

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86. **How many times did Mahmud of Ghazni invade India?**

A 17

B 7

C 15

D 5

Answer: A

87. **In July 2018, a stable body of liquid water was found on Mars using a radar instrument on board the European Space Agency's Mars Express orbiter. The tool that was used for the discovery is called:**

A MARINER 4

B Mars Orbiter

C Mars Hope

D MARSIS

Answer: D

88. **Which day is celebrated every year as 'World Environment Day'?**

A 5th June

B 5th March

C 5th April

D 5th May

Answer: A

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SSC CGL Previous Papers (DOWNLOAD PDF)

89. **Which Article of the Constitution of India provides that there shall be a Council of Ministers with the Prime Minister as its head?**

A Article 21(1)

B Article 74(1)

C Article 44

D Article 34

Answer: B

90. **Which of the following group of scientists was awarded the 2019 Nobel Prize in Physiology or Medicine "for their discoveries of how cells sense and adapt to oxygen availability"?**

A Fraser Stoddart, Jean-Pierre Sauvage and Ben Feringa

B John B Goodenough, M Stanley Whittingham and Akira Yoshino

C Kip Thorne, Rainer Weiss and Barry Barish

D William G Kaelin Jr, Sir Peter J Ratcliffe and Gregg L Semenza

Answer: D

91. **What is Gini coefficient used for?**

A To measure income equality

B To measure income inequality

C To measure distribution of income

D To measure profit and loss

Answer: B

SSC CGL Free Mock Test (Latest Pattern)

92. **When was the 120th birth anniversary of Shaheed Udham Singh celebrated in India?**

A 26 November 2019

B 26 September 2019

C 26 October 2019

D 26 December 2019

Answer: D

93. **As of January 2020, who among the following had the distinction of having the highest career batting average in One Day Internationals?**

A Sachin Tendulkar

B Virat Kohli

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C Ryan ten Doeschate

D Steven Smith

Answer: C

94. **Whose birth anniversary is celebrated as National Sports Day every year on 29 August?**

A Ranjitsinhji Vibhaji Jadeja

B Dhyan Chand

C Dilip Sardesai

D PT Usha

Answer: B

SSC CHSL Important Questions and Answers (Download PDF)

95. **Who was the last Viceroy of India who oversaw the creation of the independent states of India and Pakistan?**

A Lord Canning

B Lord Mountbatten

C Lord Irwin

D Lord Hasting

Answer: B

96. **Where is Valmiki Tiger Reserve located?**

A West Champaran, Bihar

B Lakhimpur Kheri, Uttar Pradesh

C Ranthambore, Rajasthan

D Chandrapur, Maharashtra

Answer: A

97. **As of January 2020, who among the following had the distinction of having scored the most goals at a single tournament in the entire history of FIFA World Cup?**

A Just Fontaine

B Zinedine Zidane

C Pele

D Diego Maradona

Answer: A

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98. **In which of the following states/union territories are you more likely to find the natural habitat of the one-horned rhinoceros (Indian Rhino)?**

A Jammu & Kashmir

B Sikkim

C Assam

D Ladakh

Answer: C

99. **Among various electrical safety devices, one based on the heating effect of electric current is called a:**

A Capacitor

B Fuse

C Protective relay

D Surge protector

Answer: B

100. **With which of the following is 'Operation Flood' related?**

A India’s mining industry

B India’s farming industry

C India’s poultry industry

D India’s dairy industry

Answer: D

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